



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Toshihiko Ohtomo et al.                      Art Unit : Unknown  
Serial No. : 10/582,413                                      Examiner : Unknown  
Filed : June 9, 2006                                        Conf. No. : 7418  
Title : METHODS FOR ENHANCING ANTIBODY ACTIVITY

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. Also enclosed are English translations of an International Search Report and an International Preliminary Report on Patentability (both from PCT/JP2004/018493).

English translations of foreign language references A17-A22, A38, and A39 are not included, since they are members of the patent family of English-language references A1, A23, A7, A4, A27, A30, A9, and A11, respectively. English translations of references A42-A44 and A80 and English abstracts of references A24 and A34 are provided herewith. In addition, Applicants enclose a concise English explanation of reference A82.

Applicants wish to bring to the Examiner's attention co-pending and co-owned non-provisional application serial numbers 10/530,696 (Attorney Docket No. 14875-141US1), 10/548,727 (Attorney Docket No. 14875-150US1), 10/550,934 (Attorney Docket No. 14875-151US1), 10/551,504 (Attorney Docket No. 14875-153US1), 10/582,176 (Attorney Docket No. 14875-163US1), 10/582,304 (Attorney Docket No. 14875-166US1), 11/547,747 (Attorney

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL**

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Applicant : Toshihiko Ohtomo et al.  
Serial No. : 10/582,413  
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Page : 2 of 2

Attorney's Docket No.: 14875-164US1 / C1-A0321P-US

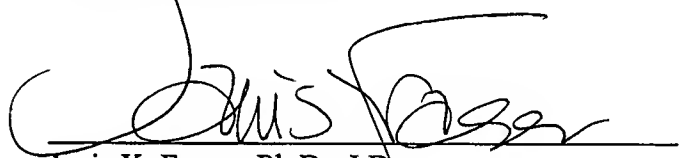
Docket No. 14875-171US1), and 10/582,654, which concern related subject matter, and some of which have overlapping inventorship with the above-referenced application. Applicants assume that the Examiner has ongoing access to the files of these related applications and can obtain copies of prosecution documents from the files if at any point in the future he/she considers it potentially relevant to issues in the present application. Applicants will supply copies of such documents from the related applications' files, should the Examiner request them.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 14875-164US1.

Respectfully submitted,

Date:

May 18, 2007

A handwritten signature in black ink, appearing to read "Janis K. Fraser", written over a horizontal line.

Janis K. Fraser, Ph.D., J.D.

Reg. No. 34,819

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
**14875-164US1**Application No.  
**10/582,413****Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant  
**Toshihiko Ohtomo et al.**Filing Date  
**June 9, 2006**Group Art Unit  
**Unknown****U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/AMG/	A1	5,877,291	04/20/1995	Mezes et al.			
	A2	6,183,744	02/06/2001	Goldenberg			
	A3	6,323,000	11/07/2001	Briggs et al.			
	A4	6,342,220	01/29/2002	Adams et al.			
	A5	6,368,596	04/09/2002	Ghetie et al.			
	A6	6,683,157	01/27/2004	Briggs et al.			
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/AMG/	A16	2007/0003556	01/07/2007	Tsuchiya et al.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/AMG/	A17	JP 7-503622	04/20/1995	Japan			See A1	
	A18	JP 10-505231	05/26/1998	Japan			See A23	
	A19	JP 2001-506135	05/15/2001	Japan			See A7	
	A20	JP 2001-513999	09/11/2001	Japan			See A4	
	A21	JP 2001-518930	10/16/2001	Japan			See A27	
	A22	JP 2002-544173	12/24/2002	Japan			See A30	
	A23	WO 96/04925	02/22/1996	WIPO				
/AMG/	A24	WO 97/31108	08/28/1997	WIPO			English abstract	

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/Anne M. Gussow/Date Considered  
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-164US1	Application No. 10/582,413
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Toshihiko Ohtomo et al.	
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							Yes	No
/AMG/	A25	WO 98/28331	07/02/1998	WIPO				
	A26	WO 98/41641	09/24/1998	WIPO				
	A27	WO 98/42378	10/01/1998	WIPO				
	A28	WO 99/02567	01/21/1999	WIPO				
	A29	WO 99/10494	03/04/1999	WIPO				
	A30	WO 00/67795	11/16/2000	WIPO				
	A31	WO 01/64713	09/07/2001	WIPO				
	A32	WO 01/66737	09/13/2001	WIPO				
	A33	WO 01/74388	10/11/2001	WIPO				
	A34	WO 01/79494	10/25/2001	WIPO			English abstract	
	A35	WO 01/97858	12/27/2001	WIPO				
	A36	WO 02/04021	01/17/2002	WIPO				
	A37	WO 02/22212	03/21/2002	WIPO				
	A38	WO 02/33072	04/25/2002	WIPO			See A9	
	A39	WO 02/33073	04/25/2002	WIPO			See A11	
	A40	WO 03/033654	04/24/2003	WIPO				
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	A42	WO 2004/033499	04/22/2004	WIPO			X	
↓	A43	WO 2004/081048	09/23/2004	WIPO			X	
/AMG/	A44	WO 2004/087763	10/14/2004	WIPO			X	

### Other Documents (include Author, Title, Date, and Place of Publication)

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/AMG/	A45	Ballmaier et al., "c-mpl mutations are the cause of congenital amegakaryocytic thrombocytopenia," <i>Blood</i> , 97:139-146 (2001)
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/AMG/	A47	Bruenke et al., "A recombinant bispecific single-chain Fv antibody against HLA class II and FcγRIII (CD16) triggers effective lysis of lymphoma cells," <i>Br. J. Haematol.</i> , 125:167-179 (2004)

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Examiner Initial	Desig. ID	Document
/AMG/	A48	Clark, "CD22, a B Cell-Specific Receptor, Mediates Adhesion and Signal Transduction," <i>J. Immunol.</i> , 150:4715-4718 (1993)
	A49	Co et al., "A Humanized Antibody Specific for the Platelet Integrin gpIIb/IIIa," <i>J. Immunol.</i> , 152:2968-2976 (1994)
	A50	Daniel et al., "Induction of Apoptosis in Human Lymphocytes by Human Anti-HLA Class I Antibodies," <i>Transplantation</i> , 75:1380-1386 (2003)
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	A52	DeNardo et al., "Anti-HLA-DR/anti-DOTA Diabody Construction in a Modular Gene Design Platform: Bispecific Antibodies for Pretargeted Radioimmunotherapy," <i>Cancer Biother. Radiopharm.</i> , 16:525-535 (2001)
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	A54	Ebert et al., "Expression of Metallothionein II in Intestinal Metaplasia, Dysplasia, and Gastric Cancer," <i>Cancer Res.</i> , 60:1995-2001 (2000)
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		Filing Date June 9, 2006	Group Art Unit Unknown

**Other Documents (include Author, Title, Date, and Place of Publication)**

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	A70	Kimura et al., "2D7 diabody bound to the $\alpha 2$ domain of HLA class I efficiently induces caspase-independent cell death against malignant and activated lymphoid cells," <i>Biochem. Biophys. Res. Commun.</i> , 325:1201-1209 (2004)
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	A77	Li et al., "The Epitope Specificity and Tissue Reactivity of Four Murine Monoclonal Anti-CD22 Antibodies," <i>Cell. Immunol.</i> , 118:85-99 (1989)
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	A79	Matsuoka et al., "A Novel Type of Cell Death of Lymphocytes Induced by a Monoclonal Antibody without Participation of Complement," <i>J. Exp. Med.</i> , 181:2007-2015 (1995)
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	A81	Ohtomo et al., "Molecular Cloning and Characterization of a Surface Antigen Preferentially Overexpressed on Multiple Myeloma Cells," <i>Biochem. Biophys. Res. Commun.</i> , 258:583-591 (1999)
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	A83	Ono et al., "The humanized anti-HM1.24 antibody effectively kills multiple myeloma cells by human effector cell-mediated cyto-toxicity," <i>Mol. Immunol.</i> , 36:387-395 (1999)
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/AMG/	A85	Ozaki et al., "A Recombinant HLA Class I-Specific Single Chain Fv Diabody Induces Cell Death in Human Lymphoid Malignancies," <i>Blood</i> , 102:933a, Abstract No. 3474 (2003)
	A86	Ozaki et al., "Humanized Anti-HM1.24 Antibody Mediates Myeloma Cell Cytotoxicity That Is Enhanced by Cytokine Stimulation of Effector Cells," <i>Blood</i> , 93:3922-3930 (1999)
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	A93	Scheurle et al., "Cancer Gene Discovery Using Digital Differential Display," <i>Cancer Res.</i> , 60:4037-4043 (2000)
	A94	Smith et al., "Inhibition of T Cell Activation by a Monoclonal Antibody Reactive Against the $\alpha_3$ Domain of Human MHC Class I Molecules," <i>J. Immunol.</i> , 153:1054-1067 (1994)
	A95	Tahtis et al., "Biodistribution Properties of <sup>111</sup> Indium-labeled C-Functionalized <i>trans</i> -Cyclohexyl Diethylenetriaminepentaacetic Acid Humanized 3S193 Diabody and F(ab') <sub>2</sub> Constructs in a Breast Carcinoma Xenograft Model," <i>Clin. Cancer Res.</i> , 7:1061-1072 (2001)
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	A97	Thilenius et al., "Agonist antibody and Fas ligand mediate different sensitivity to death in the signaling pathways of Fas and cytoplasmic mutants," <i>Eur. J. Immunol.</i> , 27:1108-1114 (1997)
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	A101	Wu et al., "Tumor localization of anti-CEA single-chain Fvs: improved targeting by non-covalent dimers," <i>Immunotechnology</i> , 2:21-36 (1996)
	A102	Xiong et al., "Efficient inhibition of human B-cell lymphoma xenografts with an anti-CD20 × anti-CD3 bispecific diabody," <i>Cancer Lett.</i> , 177:29-39 (2002)
/AMG/	A103	Xu et al., "Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver," <i>Proc. Natl. Acad. Sci. USA</i> , 98:15089-15094 (2001)

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